Laromer® EA 9124

Product description

Epoxy acrylate thinned in HDDA for the Formulation of UV/EB Curable Inks and Coatings and overprint varnishes.

Key benefits

- Excellent reactivity
- High abrasion and chemical resistance
- Low viscosity
- Good adhesion to plastics and metal

Chemical nature

80 % Bisphenol A epoxy diacrylate in 20 % HDDA

Properties

Physical form

Clear, pale yellow liquid

Technical data

(not supply specification)

Viscosity, dynamic	DIN EN 12092 (23 °C, D = 25 1/s)	7.0 – 15.0 Pa.s
Colour value, Platin-Cobalt scale (Hazen/APHA)	DIN EN ISO 6271	≤ 300
Acid value	DIN EN ISO 2114	≤ 5 mg KOH/g
Functionality (theoretical)		2.0

Application

Laromer® EA 9124 is a low viscosity, difunctional epoxy acrylate blend that can be cured either by UV or EB radiation and that is employed for formulating screen and metal decoration inks in graphic arts. It is also a common building block for formulating sealers and topcoats for wood coatings and flooring as well as clear coats for industrial applications.

Laromer® EA 9124 provides excellent scratch and abrasion resistance, imparts high reactivity and a high gloss finish and furthermore promotes adhesion on plastic and metal surfaces.

Laromer® EA 9124 is fully compatible with all common mono- and multifunctional monomers; depending on the choice of added monomer hardness and flexibility of the final UV/EB cured film will be affected.

Laromer® EA 9124 can also be formulated in combination with other oligomer resin classes like epoxy, polyester and urethane acrylates.

Apart from that, Laromer® EA 9124 can be further diluted with all com-mon monomers and its viscosity can also be further reduced when using organic solvents as thinners.

A suitable photoinitiator must be used to photocure Laromer® EA 9124. The photoinitiator types include, for example, α-hydroxy ketone, benzophenone, acyl phosphine oxide, and blends thereof, for typical coating applications. The amount of photoinitiator varies between 2 – 5 % based on Laromer® EA 9124 as delivered.

Acyl phosphine oxide types (MAPO, MAPO-Liquid and BAPO) of photoinitiators are recommended for pigmented coatings and inks or film thicknesses of 50 g/cm² to ensure through curing.

Storage

Product ought to be kept within sealed unopened containers. Containers should be stored below 35 °C and away from sunlight.

Safety

When handling this product, please comply with the advice and information given in the safety data sheet and observe protective and workplace hygiene measures adequate for handling chemicals.

Note

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights, etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. The agreed contractual quality of the product results exclusively from the statements made in the product specification. It is the responsibility of the recipient of our product to ensure that any proprietary rights and existing laws and legislation are observed.

® = Registered trademark
™ = Trademark of the BASF Group, unless otherwise noted

BASF SE
Resins & Additives (Europe)
67056 Ludwigshafen, Germany
www.basf.com/resins

30660730